**BRUHAT BANGALORE MAHANAGARA PALIKE**

**Name of Work:-Construction of Market Building At Jp Park in Ward No 17.**

**Measurement Sheet**

**First and Part**

| Item No: | 1 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Item Name: | KSRRB 200-8 Clearing grubbing road lane including up rooting rank vegitation, grass , brush, shrubs, sapling & trees of girth up to 300 mm by manual means, in area of light jungle, removal of stumps, disposal of un serviceable materials, stacking of serviceable materials with in a lead of 100 mtr from road boundary, labour charges complete as per specifications. | | | | | | | | |
| | **CHAINAGE** / **Land Mark** | **NO** | **L** (m) | **B** (m) | **B1** (m) | **Avg B** (m) | **D** (m) | **QTY** | **REMARKS** |
| | | 1 | 80.00 | 21.00 | 20.50 | 20.75 | - | 1660.00 | Sqm |
| | **Total Qty Work Done** | | | | | | | **1660.00** | **Sqm** |
| | **Reserve Qty** | | | | | | | **60.00** | **Sqm** |
| | **Qty Limited Payable in this bill** | | | | | | | **1600.00** | **Sqm** |

Contractor Representative

Consultant Representative

**Assistant Engineer**
**RR Nagara Division (Project )**

**Asst.Executive Engineer**
**RR Nagara Division (Project )**

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**BRUHAT BANGALORE MAHANAGARA PALIKE**

**Name of Work:-Construction of Market Building At Jp Park in Ward No 17.**

**Measurement Sheet**

**First and Part**

| Item No: | 2 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Item Name: | Dismanteling of Exsisting structures like Culverts, Bridges, retaining wall & other structures compraising of masanry, cement concrete, wood work, steel work including T& P and scaffolding wherever necessary, sorting the Dismentalled metrial,disposoble of unserviceble material & stacking servicable material with lead of 1000 mts, complete as per specification 1.) Lime concrete/ Cement Concrete | | | | | | | | |
| | **CHAINAGE** / **Land Mark** | **NO** | **L** (m) | **B** (m) | **B1** (m) | **Avg B** (m) | **D** (m) | **QTY** | **REMARKS** |
| | | 1 | 6.00 | - | - | 5.50 | 0.15 | 4.95 | |
| | | | | | | | **Total Qty Work Done** | 4.95 | **Cum** |
| | | | | | | | **Qty Payable in this bill** | 4.95 | **Cum** |

Contractor Representative

Consultant Representative

**Assistant Engineer**

**RR Nagara Division (Project )**

**Asst.Executive Engineer**

**RR Nagara Division (Project )**

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**BRUHAT BANGALORE MAHANAGARA PALIKE**

**Name of Work:-Construction of Market Building At Jp Park in Ward No 17.**

**Measurement Sheet**

**First and Part**

| Item No: | 3 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Item Name: | Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. –do– Dismantling brick/Tile work B. In cement mortar. | | | | | | | | |
| | **CHAINAGE** / **Land Mark** | **NO** | **L** (m) | **B** (m) | **B1** (m) | **Avg B** (m) | **D** (m) | **QTY** | **REMARKS** |
| | | 2 | 6.00 | - | - | 0.23 | 3.00 | 8.28 | |
| | | 2 | 9.00 | - | - | 0.23 | 3.00 | 12.42 | |
| | | | | | | | **Total Qty Work Done** | **20.70** | **Sqm** |
| | | | | | | | **Reserve Qty** | **13.80** | **Sqm** |
| | | | | | | | **Qty Payable in this bill** | **6.90** | **Sqm** |

Contractor Representative

Consultant Representative

**Assistant Engineer**
**RR Nagara Division (Project )**

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**RR Nagara Division (Project )**

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**BRUHAT BANGALORE MAHANAGARA PALIKE**

**Name of Work:-Construction of Market Building At Jp Park in Ward No 17.**

**Measurement Sheet**

**First and Part**

| Item No: | 5 | |
|---|---|---|
| Item Name: | Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeeding 50 m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and nealty dressed as per specifications | |

| | CHAINAGE / Land Mark | NO | L (m) | B (m) | B1 (m) | Avg B (m) | D (m) | QTY | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | (30+30+20=80 ) | 1 | 80.00 | - | - | 20.00 | 0.15 | 240.00 | |
| | | | | | | | Total Qty Work Done | 240.00 | Cum |
| | | | | | | | Reserve Qty | 80.00 | Cum |
| | | | | | | | Qty Payable in this bill | 160.00 | Cum |

Contractor Representative

Consultant Representative

Assistant Engineer
RR Nagara Division (Project )

Asst. Executive Engineer
RR Nagara Division (Project )

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**BRUHAT BANGALORE MAHANAGARA PALIKE**

**Name of Work:-Construction of Market Building At Jp Park in Ward No 17.**

**Measurement Sheet**

**First and Part**

| Item No: | 4 | |
|---|---|---|
| Item Name: | Dismanteling of Exsisting structures like Culverts, Bridges, retaining wall & other structures compraising of masanry, cement concrete, wood work, steel work including T& P and scaffolding wherever necessary, sorting the Dismentalled metrial,disposoble of unserviceble material & stacking servicable material with lead of 1000 mts, B13complete as per specification !!!) Dismanteling of Stone masonary | |

| | CHAINAGE / Land Mark | NO | L (m) | B (m) | B1 (m) | Avg B (m) | D (m) | QTY | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 23.00 | - | - | 0.60 | 0.60 | 8.28 | |
| | | 1 | 23.00 | - | - | 0.45 | 0.45 | 4.66 | |
| | | | | | | | **Total Qty Work Done** | **12.94** | **Cum** |
| | | | | | | | **Qty Payable in this bill** | **12.94** | **Cum** |

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ
ರಾಜರಾಜೇಶ್ವರಿ ನಗರ ವಲಯ

Contractor Representative

TOTAL QUALITY CONSULTANTS & ENGINEERS Bangalore

Consultant Representative

**Assistant Engineer**
**RR Nagara Division (Project )**

ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು (ಯೋಜನೆ)
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
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**Asst Executive Engineer**
**RR Nagara Division (Project )**

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**BRUHAT BANGALORE MAHANAGARA PALIKE**

**Name of Work:-Construction of Market Building At Jp Park in Ward No 17.**

**Measurement Sheet**

**First and Part**

| Item No: | 6 | |
|---|---|---|
| Item Name: | KSRB -2-2.1 : Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. after breaking of clods complete as per specifications. (P.No.5, I.No.2.3 of PW,P & IWTD S.R 2016-17) | |

| | CHAINAGE / Land Mark | NO | L (m) | B (m) | B1 (m) | Avg B (m) | D (m) | QTY | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | (30+30.2 ) = 60.2 | 1 | 60.20 | - | - | 17.70 | 2.65 | 2823.68 | |
| | | | | | | | Total Qty Work Done | 2823.68 | Cum |
| | | | | | | | Reserve Qty | 1504.89 | Cum |
| | | | | | | | Qty Payable in this bill | 1318.79 | Cum |

Contractor Representative

Consultant Representative

**Assistant Engineer**
**RR Nagara Division (Project )**

**Asst.Executive Engineer**
**RR Nagara Division (Project )**

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**BRUHAT BANGALORE MAHANAGARA PALIKE**

**Name of Work:-Construction of Market Building At Jp Park in Ward No 17.**

**Measurement Sheet**

**First and Part**

| Item No: | 7 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Item Name: | Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width in IN HARD SOIL not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. after breaking of clods complete as per specifications | | | | | | | | |
| | **CHAINAGE** / **Land Mark** | **NO** | **L** (m) | **B** (m) | **B1** (m) | **Avg B** (m) | **D** (m) | **QTY** | **REMARKS** |
| | (30+30.2 ) = 60.2 | 1 | 60.20 | - | - | 17.70 | 0.60 | 639.32 | |
| | | | | | | | **Total Qty Work Done** | 639.32 | Cum |
| | | | | | | | **Reserve Qty** | 573.38 | Cum |
| | | | | | | | **Qty Limited Payable in this bill** | 65.94 | Cum |

Contractor Representative

Consultant Representative

**Assistant Engineer**

**RR Nagara Division (Project )**

**Asst.Executive Engineer**

**RR Nagara Division (Project.)**

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**BRUHAT BANGALORE MAHANAGARA PALIKE**

**Name of Work:-Construction of Market Building At Jp Park in Ward No 17.**

**Measurement Sheet**

**First and Part**

| Item No: | 8 | |
|---|---|---|
| Item Name: | Providing and injecting chemical emulsion for Pre-constructional Anti-Termite Treatment, creating continuous chemical barrier under and around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor,along the external perimeter of building,expansion joints,over the top surface of consolidated earth on which apron is to be laid,surrounding of pipes and conduits with chloropyriphos emulsifiable concentrates of 20% concentration,including cost of chemical,diluting in water to one percent concentration, labour, HOM of equipments, complete as per specifications.(Plinth area of the building at ground floor only shall be measured) | |

| | CHAINAGE / Land Mark | NO | L (m) | B (m) | B1 (m) | Avg B (m) | D (m) | QTY | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | (30+28 =58 ) | 1 | 58.00 | - | - | 15.00 | - | 870.00 | |
| | **Total Qty Work Done** | | | | | | | **870.00 Sqm** | |
| | **Qty Payable in this bill** | | | | | | | **870.00 Sqm** | |

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Contractor Representative

Consultant Representative

**Assistant Engineer**
**RR Nagara Division (Project )**

**Asst.Executive Engineer**
**RR Nagara Division (Project )**
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**BRUHAT BANGALORE MAHANAGARA PALIKE**

**Name of Work:-Construction of Market Building At Jp Park in Ward No 17.**

**Measurement Sheet**

**First and Part**

| Item No: | 9 | |
|---|---|---|
| Item Name: | Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. | |

| | CHAINAGE / Land Mark | NO | L (m) | B (m) | B1 (m) | Avg B (m) | D (m) | QTY | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | Below Foundation | | | | | | | | |
| | Grid A - 1 to 21 30+29.4=59.40 | 1 | 59.40 | | | 3.00 | 0.30 | 53.46 | |
| | Grid B - 2,4,6,8,16,18,20 | 7 | 1.80 | | | 1.80 | 0.30 | 6.80 | |
| | 3, 5,7,10,14,17,19 | 7 | 2.80 | | | 2.80 | 0.30 | 16.46 | |
| | 9 and 15 | 2 | 2.60 | | | 2.60 | 0.30 | 4.06 | |
| | 12.00 | 1 | 3.00 | | | 3.00 | 0.30 | 2.70 | |
| | Grid C - 2,4,6, 8, 16,18 and 20 | 7 | 2.40 | | | 2.40 | 0.30 | 12.10 | |
| | 3,5,7,10,17,19 | 6 | 3.40 | | | 3.40 | 0.30 | 20.81 | |
| | 9 and 15 | 2 | 3.20 | | | 3.20 | 0.30 | 6.14 | |
| | 14.00 | 1 | 3.40 | | | 3.40 | 0.30 | 3.47 | |
| | Grid F - 1 to 21 30+29.4=59.40 | 1 | 59.40 | | | 3.20 | 0.30 | 5.702 | |
| | Grid A and E- 1 | 1 | 11.70 | | | 3.20 | 0.30 | 11.23 | |
| | A and E -21 | 1 | 11.70 | | | 3.20 | 0.30 | 11.23 | |
| | Lift pit | 1 | 3.65 | | | 3.65 | 0.30 | 4.00 | |
| | | | | | | | **Total Qty Work Done** | 209.48 | Cum |
| | | | | | | | **Qty Payable in this bill** | 209.48 | Cum |

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Contractor Representative

Consultant Representative

Assistant Engineer
RR Nagara Division (Project )

Asst Executive Engineer
RR Nagara Division (Project)

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**BRUHAT BANGALORE MAHANAGARA PALIKE**

**Name of Work:-Construction of Market Building At Jp Park in Ward No 17.**

**Measurement Sheet**

**First and Part**

| Item No: | 10 |
|---|---|
| Item Name: | Providing and filling sand in foundation upto plinth to required depth for sub soil treatment including watering ramming with all lead and lift complete as per specifications. |

| | CHAINAGE / Land Mark | NO | L (m) | B (m) | B1 (m) | Avg B (m) | D (m) | QTY | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | Grid A - 1 to 21 (30+29.4=59.40) | 1.00 | 59.40 | | | 2.60 | 0.05 | 7.72 | |
| | Grid B - 2,4,6,8,16,18,20 | 7.00 | 1.80 | | | 1.80 | 0.05 | 1.13 | |
| | 3, 5,7,10,14,17,19 | 7.00 | 2.80 | | | 2.60 | 0.05 | 2.55 | |
| | 9 and 15 | 2.00 | 2.60 | | | 2.40 | 0.05 | 0.62 | |
| | 12.00 | 1.00 | 3.00 | | | 2.80 | 0.05 | 0.42 | |
| | Grid C - 2,4,6, 8, 16,18 and 20 | 7.00 | 2.40 | | | 2.40 | 0.05 | 2.02 | |
| | 3,5,7,10,17,19 | 6.00 | 3.40 | | | 3.20 | 0.05 | 3.26 | |
| | 9 and 15 | 2.00 | 3.20 | | | 3.00 | 0.05 | | |
| | 14.00 | 1.00 | 3.10 | | | 3.40 | 0.05 | 0.53 | |
| | Grid F - 1 to 21 (30+29.4=59.40) | 1.00 | 59.40 | | | 3.10 | 0.05 | 9.21 | |
| | Grid A and E- 1 | 1.00 | 11.70 | | | 2.80 | 0.05 | 1.64 | |
| | A and E -21 | 1.00 | 11.70 | | | 2.80 | 0.05 | 1.64 | |

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| | CHAINAGE / Land Mark | NO | L (m) | B (m) | B1 (m) | Avg B (m) | D (m) | QTY | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | Lift pit | 1.00 | 3.50 | | | 3.65 | 0.05 | 0.64 | |
| | | | | | | | Total Qty Work Done | 32.34 | Cum |
| | | | | | | | Reserve Qty | 6.34 | Cum |
| | | | | | | | Qty Limited Payable in this bill | 26.00 | Cum |

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Contractor Representative

CIVIL QUALITY CONSULTANTS & ENGINEERS Bangalore

Consultant Representative

Assistant Engineer
RR Nagara Division (Project )

Asst.Executive Engineer
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು (ಯೋಜನೆ)
RR Nagara Division (Project )
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
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**BRUHAT BANGALORE MAHANAGARA PALIKE**

**Name of Work:-Construction of Market Building At Jp Park in Ward No 17.**

**Measurement Sheet**

**First and Part**

| Item No: | 11 |
|---|---|
| Item Name: | Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications, including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density. |

| | CHAINAGE / Land Mark | NO | L (m) | B (m) | B1 (m) | Avg B (m) | D (m) | QTY | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | For Shop Upto Drain Top | 1 | 58.00 | - | - | 1.46 | 0.60 | 50.81 | |
| | | 1 | 60.20 | - | - | 17.70 | 3.95 | 4208.88 | |
| | | 1 | 50.00 | - | - | 1.50 | 2.40 | 180.00 | |
| | Deduction Item No 9 Qty | | | | | | | -209.48 | |
| | Deduction Item No 10 Qty | | | | | | | -26.00 | |
| | Deduction Item No 12 Qty | | | | | | | -192.98 | |
| | Deduction Item No 18 Qty (Footing, Retaining Wall Columns Pedestal And Plinth ) | | | | | | | -449.09 | |
| | | | | | | | Total Qty Work Done | 3563.22 | Cum |
| | | | | | | | Reserve Qty | 3055.12 | Cum |
| | | | | | | | Qty Payable in this bill | 508.10 | Cum |

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Contractor Representative

QUALITY CONSULTANTS & ENGINEERS Bangalore

Consultant Representative

Assistant Engineer
RR Nagara Division (Project )

Asst.Executive Engineer
RR Nagara Division (Project )

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**BRUHAT BANGALORE MAHANAGARA PALIKE**

**Name of Work:-Construction of Market Building At Jp Park in Ward No 17.**

**Measurement Sheet**

**First and Part**

| Item No: | 12 | |
|---|---|---|
| Item Name: | Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 180 kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 5.75 cum machine mixed, concrete laid in layers not exceeding 15 cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specification | |

| | CHAINAGE / Land Mark | NO | L (m) | B (m) | B1 (m) | Avg B (m) | D (m) | QTY | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | **For Footing** | | | | | | | | |
| | Grid A - 1 to 21 (30+29.4=59.40) | 1 | 59.40 | - | - | 2.60 | 0.15 | 23.17 | |
| | Grid B - 2,4,6,8,16,18,20 | 7 | 1.80 | - | - | 1.80 | 0.15 | 3.40 | |
| | 3, 5,7,10,14,17,19 | 7 | 2.80 | - | - | 2.60 | 0.15 | 7.64 | |
| | 9 and 15 | 2 | 2.60 | - | - | 2.40 | 0.15 | 1.87 | |
| | 12.00 | 1 | 3.00 | - | - | 2.80 | 0.15 | 1.26 | |
| | Grid C - 2,4,6, 8, 16,18 and 20 | 7 | 2.40 | - | - | 2.40 | 0.15 | 6.05 | |
| | 3,5,7,10,17,19 | 6 | 3.40 | - | - | 3.20 | 0.15 | 9.79 | |
| | 9 and 15 | 2 | 3.20 | - | - | 3.00 | 0.15 | 2.88 | |
| | 14.00 | 1 | 3.10 | - | - | 3.40 | 0.15 | 1.58 | |
| | Grid F - 1 to 21 (30+29.4=59.40) | 1 | 59.40 | - | - | 3.10 | 0.15 | 27.62 | |
| | Grid A and E- 1 | 1 | 11.70 | - | - | 2.80 | 0.15 | 4.91 | |
| | A and E -21 | 1 | 11.70 | - | - | 2.80 | 0.15 | 4.91 | |
| | Lift pit | 1 | 3.50 | - | - | 3.65 | 0.15 | 1.92 | |
| | **For Plinth Beam** | | | | | | | | |
| | | | | | | | | | |
| | Grid B - 1 to 21 | 17 | 2.90 | - | - | 0.30 | 0.15 | 2.23 | |
| | | 1 | 2.80 | - | - | 0.30 | 0.15 | 0.13 | |
| | Grid C - 1 to 21 | 15 | 2.90 | - | - | 0.30 | 0.15 | 1.96 | |
| | | 1 | 2.80 | - | - | 0.30 | 0.15 | 0.13 | |
| | | 1 | 6.10 | - | - | 0.30 | 0.15 | 0.27 | |
| | Grid A and B- 2 , 4, 6, 8, 16,18,20 | 7 | 2.60 | - | - | 0.40 | 0.15 | 1.09 | |
| | 3, 5, 7, 9, 10, 12, 14,15,17,19 | 10 | 2.30 | - | - | 0.40 | 0.15 | 1.38 | |

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| | CHAINAGE | NO | L | B | B1 | Avg B | D | QTY | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | Land Mark | | (m) | (m) | (m) | (m) | (m) | | |
| | Grid B and C - 3,5,7,9,10,14,15,17,10 | 9 | 4.70 | - | - | 0.40 | 0.15 | 2.54 | |
| | Grind C and F- 2,4,6,8,16, 18, 20 | 7 | 5.60 | - | - | 0.40 | 0.15 | 2.35 | |
| | 3,5,7,9,10,14,15,17,19 | 9 | 5.30 | - | - | 0.40 | 0.15 | 2.86 | |
| | Grid C - 11 to 14 | 1 | 3.50 | - | - | 0.30 | 0.15 | 0.16 | |
| | Grid D - 13 to 14 | 1 | 1.50 | - | - | 0.30 | 0.15 | 0.07 | |
| | Grid E- 13 to 14 | 1 | 1.50 | - | - | 0.30 | 0.15 | 0.07 | |
| | Grid E and G- 11 | 1 | 1.50 | - | - | 0.30 | 0.15 | 0.07 | |
| | Grid C and D- 11 | 1 | 2.30 | - | - | 0.30 | 0.15 | 0.10 | |
| | For Ground Floor Flooring | | | | | | | | |
| | Grid A and B - 1 to 21 | 17 | 3.10 | - | - | 2.90 | 0.15 | 22.92 | |
| | | 1 | 3.10 | - | - | 2.80 | 0.15 | 1.30 | |
| | Grid B and C - 1 to 21 | 7 | 4.70 | - | - | 6.10 | 0.15 | 30.10 | |
| | | 1 | 4.70 | - | - | 6.00 | 0.15 | 4.23 | |
| | | 2 | 4.70 | - | - | 2.90 | 0.15 | 4.09 | |
| | Grid C & F - 1 to 21 | 17 | 6.10 | - | - | 2.90 | 0.15 | 45.11 | |
| | | 1 | 6.10 | - | - | 2.80 | 0.15 | 2.56 | |
| | Deduction (-) | | | | | | | | |
| | Lift | -1 | 2.20 | - | - | 2.60 | 0.15 | -0.86 | |
| | | | | | | | Total Qty Work Done | 221.86 | Cum |
| | | | | | | | Reserve Qty | 29.96 | Cum |
| | | | | | | | Qty Limited Payable in this bill | 191.90 | Cum |

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Contractor Representative

Consultant Representative

**Assistant Engineer**
**RR Nagara Division (Project )**

**Asst.Executive Engineer**
**RR Nagara Division (Project )**

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**BRUHAT BANGALORE MAHANAGARA PALIKE**

**Name of Work:-Construction of Market Building At Jp Park in Ward No 17.**

**Measurement Sheet**

**First and Part**

| Item No: | 18 |
|---|---|
| Item Name: | Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges) Ready mixed Cement concrete for Beams, Staircase and Roof with M 30-Ground floor |

| CHAINAGE / Land Mark | NO | L (m) | B (m) | B1 (m) | Avg B (m) | D (m) | QTY | REMARKS |
|---|---|---|---|---|---|---|---|---|
| For Footings | | | | | | | | |
| Grid A - 1 to 21 (30+29.1=59.1) | 1 | 59.10 | | | 2.30 | 0.48 | 64.57 | |
| Grid B - 2,4,6,8,16,18,20 | 7 | 1.50 | | | 1.50 | 0.35 | 5.51 | |
| 3,5,7,10,14,17,19 | 7 | 2.50 | | | 2.30 | 0.53 | 21.13 | |
| 9 & 15 | 2 | 2.30 | | | 2.10 | 0.48 | 4.59 | |
| 12.00 | 1 | 2.70 | | | 2.50 | 0.58 | 3.88 | |
| Grid C - 2,4,6,8,16,18,20 | 7 | 2.10 | | | 2.10 | 0.48 | 14.66 | |
| 3,5,7,10,17,19 | 6 | 3.10 | | | 2.90 | 0.68 | 36.41 | |
| 9 and 15 | 2 | 2.90 | | | 2.70 | 0.60 | 9.40 | |
| 14.00 | 1 | 2.90 | | | 3.10 | 0.68 | 6.07 | |
| Grid F - 1 to 21 (30+29.1=59.10) | 1 | 59.10 | | | 2.70 | 0.58 | 91.75 | |
| Grid A and E -1 | 1 | 11.74 | | | 2.50 | 0.58 | 16.87 | |
| 21.00 | 1 | 11.74 | | | 2.50 | 0.58 | 16.88 | |

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| | CHAINAGE / Land Mark | NO | L (m) | B (m) | B1 (m) | Avg B (m) | D (m) | QTY | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | Lift Pit | 1 | 3.20 | | | 3.35 | 0.58 | 6.16 | |
| | **For Retaining Wall** | | | | | | | | |
| | Grid A - 1 to 21 (30+27.8=57.8) | 1.00 | 57.80 | | | 0.20 | 2.73 | 31.50 | |
| | Extra thickness of wall | | | | | | | | |
| | Grid A -12 to 17 | 1.00 | 13.10 | | | 0.20 | 2.73 | 7.14 | |
| | Grid F - 1 to 21 (30+27.8=57.8) | 1.00 | 57.80 | | | 0.20 | 2.63 | 30.35 | |
| | Grid A and F-1 | 1.00 | 14.60 | | | 0.20 | 2.63 | 7.67 | |
| | Grid A and F-21 | 1.00 | 14.60 | | | 0.20 | 2.63 | 7.67 | |
| | Lift Pit | 2.00 | 2.60 | | | 0.20 | 2.63 | 2.73 | |
| | | 2.00 | 1.82 | | | 0.23 | 2.63 | 2.20 | |
| | **Deduction (-)** | | | | | | | | |
| | Columns | | | | | | | | |
| | Grid A | -19.00 | 0.60 | | | 0.30 | 2.73 | -9.32 | |
| | Grid F | -18.00 | 0.60 | | | 0.30 | 2.63 | -8.51 | |
| | Grid -1 | -2.00 | 0.60 | | | 0.30 | 2.63 | -0.95 | |
| | Grid -21 | -2.00 | 0.60 | | | 0.30 | 2.63 | -0.95 | |
| | **Pedestrial:** | | | | | | | | |
| | Grid B- 2,4,6,8,16,18,20 | 7.00 | 0.53 | | | 0.53 | 2.40 | 4.63 | |
| | 3,5,7,10,14,17,19 | 7.00 | 0.53 | | | 0.75 | 2.23 | 6.13 | |
| | 9,15 | 2.00 | 0.53 | | | 0.75 | 2.28 | 1.81 | |
| | 12.00 | 1.00 | 0.53 | | | 0.75 | 2.18 | 0.86 | |
| | Grid C- 2,4,6,8,16,18,20 | 7.00 | 0.53 | | | 0.53 | 2.28 | 4.47 | |
| | 3,5,7,10,14,17,19 | 7.00 | 0.53 | | | 0.75 | 2.08 | 5.77 | |
| | 9 and 15 | 2.00 | 0.53 | | | 0.75 | 2.15 | 1.71 | |
| | Plinth Beam | | | | | | | | |
| | Grid A and F- 3,5,7,9,10,14,15,17, | 9.00 | 14.30 | | | 0.30 | 0.45 | 17.37 | |

C/F

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NH 2/5/2020

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| CHAINAGE / Land Mark | NO | L (m) | B (m) | B1 (m) | Avg B (m) | D (m) | QTY | REMARKS |
|---|---|---|---|---|---|---|---|---|
| Grid A & B-2,4,6,8,12,16,18,20 | 8.00 | 2.60 | | | 0.30 | 0.45 | 2.81 | |
| Grid C & F-2,4,6,8,16,18,20 | 7.00 | 5.60 | | | 0.30 | 0.45 | 5.29 | |
| Grid B-1 to 20 | 17.00 | 2.90 | | | 0.20 | 0.45 | 4.44 | |
| Grid B-20 to 21 | 1.00 | 2.80 | | | 0.20 | 0.45 | 0.25 | |
| Grid C- 1 to 10 | 9.00 | 2.90 | | | 0.20 | 0.45 | 2.35 | |
| 10 to 14 | 1.00 | 6.10 | | | 0.20 | 0.45 | 0.55 | |
| 14 to 20 | 6.00 | 2.90 | | | 0.20 | 0.45 | 1.57 | |
| 20 & 21 | 1.00 | 2.80 | | | 0.20 | 0.45 | 0.25 | |
| Grid C & G-11 | 1.00 | 6.40 | | | 0.20 | 0.45 | 0.58 | |
| Grid C -11 to 14 | 3.00 | 3.50 | | | 0.20 | 0.45 | 0.95 | |
| Grid D & E-13 | 1.00 | 2.14 | | | 0.20 | 0.45 | 0.19 | |
| Ground Floor Columns: | | | | | | | | |
| Above Plinth upto Beam bottom | | | | | | | | |
| Grid A - 1 to 21 | 19.00 | 0.60 | | | 0.30 | 2.55 | 8.72 | |
| Grid B- 1 to 21 | 12.00 | 0.60 | | | 0.30 | 2.55 | | |
| | 7.00 | 0.30 | | | 0.30 | 2.55 | 1.61 | |
| Grid C- 1 to 21 | 11.00 | 0.60 | | | 0.30 | 2.55 | 5.05 | |
| | 7.00 | 0.30 | | | 0.30 | 2.55 | 1.61 | |
| Lift Column | 4.00 | 0.45 | | | 0.20 | 2.55 | 0.92 | |
| Grid F- 1 to 21 | 18.00 | 0.60 | | | 0.30 | 2.55 | 8.26 | |
| | 1.00 | 0.45 | | | 0.20 | 2.55 | 0.23 | |
| Grid F- 1 to 21 Retaining wall(30+27.8=57.8 ) | 1.00 | 57.80 | | | 0.20 | 2.55 | 29.47 | |
| Deduction(-) Column portion in | | | | | | | | |
| Retaining wall | -18.00 | 0.20 | | | 0.30 | 2.55 | -2.75 | |
| Ventilators | -16.00 | 1.80 | | | 0.20 | 0.60 | -3.46 | |

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| CHAINAGE / Land Mark | NO | L (m) | B (m) | B1 (m) | Avg B (m) | D (m) | QTY | REMARKS |
|---|---|---|---|---|---|---|---|---|
| Ground Floor Roof Slab and Beam | | | | | | | | |
| Slab Area (30+27.8=57.8) | 1.00 | 57.80 | | | 16.80 | 0.15 | 145.66 | |
| | 1.00 | 5.10 | | | 1.50 | 0.15 | 1.15 | |
| Deduction(-) | | | | | | | | |
| Staircase area | -2.00 | 1.50 | | | 3.50 | 0.15 | -1.58 | |
| | -1.00 | 1.50 | | | 2.60 | 0.15 | -0.59 | |
| Duct | -1.00 | 0.55 | | | 1.25 | 0.15 | -0.10 | |
| Lift | -1.00 | 1.80 | | | 2.14 | 0.15 | -0.58 | |
| **Beam** | | | | | | | | |
| B-1,2,3 (30+27.8=57.8) | 1.00 | 57.80 | | | 0.20 | 0.30 | 3.47 | |
| B-5 & 7 (30+29.3=59.3) | 2.00 | 59.30 | | | 0.20 | 0.30 | 7.12 | |
| B-8 | 1.00 | 3.50 | | | 0.20 | 0.30 | 0.21 | |
| B-9 | 2.00 | 1.80 | | | 0.20 | 0.30 | 0.22 | |
| B-11 | 1.00 | 29.10 | | | 0.20 | 0.30 | 1.75 | |
| B-12 | 1.00 | 22.60 | | | 0.20 | 0.30 | 1.36 | |
| B-14,15 & 14A | 1.00 | 57.80 | | | 0.20 | 0.30 | 3.47 | |
| B-14B | 1.00 | 57.80 | | | 0.15 | 0.30 | 2.60 | |
| B-16 | 2.00 | 15.05 | | | 0.20 | 0.30 | 1.81 | |
| B-16A | 1.00 | 4.70 | | | 0.20 | 0.30 | 0.28 | |
| B-17 | 1.00 | 15.05 | | | 0.30 | 0.30 | 1.35 | |
| B-18 | 7.00 | 15.05 | | | 0.30 | 0.30 | 9.48 | |
| B-18A | 5.00 | 15.05 | | | 0.30 | 0.30 | 6.77 | |
| B-19 | 1.00 | 15.05 | | | 0.30 | 0.30 | 1.35 | |
| B-20 | 1.00 | 15.05 | | | 0.30 | 0.30 | 1.35 | |
| B-22 | 1.00 | 6.60 | | | 0.20 | 0.30 | 0.40 | |
| B-23 | 1.00 | 2.54 | | | 0.20 | 0.30 | 0.15 | |
| B-24 | 1.00 | 15.05 | | | 0.30 | 0.30 | 1.35 | |

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| | CHAINAGE / Land Mark | NO | L (m) | B (m) | B1 (m) | Avg B (m) | D (m) | QTY | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | B-24A | 1.00 | 0.65 | | | 0.20 | 0.30 | 0.04 | |
| | B-25 | 1.00 | 7.80 | | | 0.30 | 0.30 | 0.70 | |
| | **Stair case Concrete** | | | | | | | | |
| | Midlanding Beam(300x450) | 1.00 | 5.40 | | | 0.30 | 0.45 | 0.73 | |
| | First Flait | 1.00 | 1.90 | | | 1.50 | 0.18 | 0.50 | |
| | Landing | 1.00 | 2.20 | | | 1.50 | 0.18 | 0.58 | |
| | Second Flait | 1.00 | 2.70 | | | 1.50 | 0.18 | 0.71 | |
| | Landing | 1.00 | 1.50 | | | 1.50 | 0.18 | 0.39 | |
| | Riser | 16x1/2 | 0.30 | | | 1.50 | 0.13 | 0.45 | |
| | Third Flait | 1.00 | 1.90 | | | 1.50 | 0.18 | 0.50 | |
| | Riser | 7x1/2 | 0.30 | | | 1.50 | 0.13 | 0.19 | |
| | East side staircase above drain | 1.00 | 5.10 | | | 2.10 | 0.18 | 1.87 | |
| | Riser | 8 x 1/2 | 5.10 | | | 0.30 | 0.20 | 1.22 | |
| | | | | | | | **Total Qty Work Done** | 680.89 | Cum |
| | | | | | | | **Reserve Qty** | 31.39 | Cum |
| | | | | | | | **Qty Limited Payable in this bill** | 649.50 | Cum |

NH 25/20

C/FC

NH 25/20

N. Prasad
Contractor Representative

CIVIL QUALITY CONSULTANTS & ENGINEERS
Consultant's Representative

B.B. Kumbar
Assistant Engineer
RR Nagara Division (Project )

Asst.Executive Engineer
RR Nagara Division (Project )

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